# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

**Name of work:** **Estimate for Improvements to Roads and Drains at Ashraya Layout Cross Roads in Ward No. 11, Kuvempunagara.**

| | | | | | | | | Est Cost Rs. | 2700000.00 |
|---|---|---|---|---|---|---|---|---|---|
| Slno | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
| | KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17** | Cum | | | | | | | |
| | for drainValmiki Circle cross road beside Tirumala store | | 2 | 90.00 | 1.00 | 1.00 | 180.00 | | |
| | Basic Rate | 82.00 | | | | | **180.00** | 199.36 | **35886.00** |
| | Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** | 68.00 | | | | | | | |
| | Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08 | 38.08 | | | | | | | |
| | | **188.08** | | | | | | | |
| | Area Weightage @6% | 11.28 | | | | | | | |
| | **Total** | **199.36** | | | | | | | |
| 2 | KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17** | Sqm | | | | | | | |
| | Ashrya Layout Cross Road 8 | | 1 | 76.00 | 5.20 | | 395.20 | | |
| | Ashrya Layout Cross Road 9 | | 1 | 64.00 | 5.20 | | 332.80 | | |
| | Basic Rate | 25.00 | | | | | **728.00** | 26.50 | **19292.00** |
| | Area Weightage @ 6% | 1.50 | | | | | | | |
| | Total | **26.50** | | | | | | | |
| 3 | KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material **Page No. 154, Item No. 20.4.2 PWD SR 2016-17** | Cum | | | | | | | |
| | Ashrya Layout Cross Road 8 | | 1 | 76.00 | 5.20 | 0.15 | 59.28 | | |
| | Ashrya Layout Cross Road 9 | | 1 | 64.00 | 5.20 | 0.15 | 49.92 | | |
| | Basic Rate | 1571.00 | | | | | **109.20** | 1665.26 | **181846.00** |
| | Area Weightage @ 6% | 94.26 | | | | | | | |
| | Total | **1665.26** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17** | Cum | | | | | | | |
| | for drain | | 2 | 90.00 | 1.00 | 0.15 | 27.00 | | |
| | Ashrya Layout Cross Road 8 | | 1 | 76.00 | 5.20 | 0.15 | 59.28 | | |
| | Ashrya Layout Cross Road 9 | | 1 | 64.00 | 5.20 | 0.15 | 49.92 | | |
| | Basic Rate | 4867.00 | | | | | **136.20** | 5159.02 | **702659.00** |
| | Area Weightage @ 6% | 292.02 | | | | | | | |
| | **Total** | **5159.02** | | | | | | | |
| 5 | Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17** | Cum | | | | | | | |
| | for bottom | | 2 | 90.00 | 0.90 | 0.15 | 24.30 | | |
| | for wall | | 4 | 90.00 | 0.15 | 0.60 | 32.40 | | |
| | Basic Rate | 5879.00 | | | | | **56.70** | 6231.74 | **353340.00** |
| | Area Weightage @ 6% | 352.74 | | | | | | | |
| | **Total** | **6231.74** | | | | | | | |
| 6 | KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / It No. 4.31 PWD SR 2016-17** | Sqm | | | | | | | |
| | for Drain Side Wall | | 2x4 | 90.00 | | 0.60 | 432.00 | | |
| | Basic Rate | 293.00 | | | | | **432.00** | 310.58 | **134171.00** |
| | Area Weightage @ 6% | 17.58 | | | | | | | |
| | **Total** | **310.58** | | | | | | | |
| 7 | KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17** | Tonne | | | | | | | |
| | Basic Rate | 60607.00 | | 56.70 | 0.06 T/cum | | **3.40** | 64243.42 | **218556.00** |
| | Area Weightage @ 6% | 3636.42 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **Total** | **64243.42** | | | | | | | |
| 8 | Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate | Sqm | | | | | | | |
| | RCC Drain covering slabs | | 300 | 0.90 | 0.60 | | 162.00 | | |
| | | | | | | | **162.00** | 1760.00 | **285120.00** |
| 9 | Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates includi separatio proved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) Page No. 177 / Item No. 22.6.2 PWD SR 2016-17** | Cum | | | | | | | |
| | Ashrya Layout Cross Road 8 | | 1 | 76.00 | 5.20 | 0.125 | 49.40 | | |
| | Ashrya Layout Cross Road 9 | | 1 | 64.00 | 5.20 | 0.125 | 41.60 | | |
| | Basic Rate | 5197.00 | | | | | **91.00** | 5508.82 | **501303.00** |
| | Area Weightage @ 6% | 311.82 | | | | | | | |
| | **Total** | **5508.82** | | | | | | | |
| | Sub Total | | | | | | | | **2432173.00** |
| | KRIDL Charges @ 10% | | | | | | | | **243217.00** |
| | Labour Cess @ 1% | | | | | | | | **24322.00** |
| | Add for unforseen and rounding off | L/S | | | | | | | **288.00** |
| | | | | | | | | Total | **2700000.00** |

**Rupees Twenty Seven lakhs only**

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty Seven lakhs only
Head of A/c. P-1878
Div. Ref. No. 75/17-18 Date 14/12/17
AE
EE(BTP)

Technical Sanction
Accorded For 27.00 lakh
Head of A/C. P-1878
CER NO: 591/17-18 Dt. 02.02.18
TA
CE (YNK)

**Certificate:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2017-18 24.10 % Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division